



Appl. No. 10/091,351

- ☐ Petition for ( ) month(s) extension of time pursuant to 37 C.F.R. §§ 1.17 and 1.136(a). \$0.00 for the extension of time.
- ☐ No fee is required.
- ☒ Check(s) in the amount of \$360.00 is(are) enclosed.
- ☐ Please charge Deposit Account No. 02-2448 in the amount of \$0.00. This form is submitted in triplicate.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By

  
Michael K. Mutter, #29,680

511L  
MKM/JPK/gf  
006126 IMPLANT/ORION/LE

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(BSKB Ref.: 1028-0178P)

Attachment(s)

(Rev. 10/15/02)



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1/9/03

PATENT  
006126 IMPLANT/ORION/LE

IN THE U. S. PATENT AND TRADEMARK OFFICE

APPLICANTS: Marvin FARLEY et al.

CONF.: 7249

APPLN. NO.: 10/091,351

GROUP: 2881

FILED: March 6, 2002

EXAMINER: Unassigned

FOR: INDIRECTLY HEATED BUTTON CATHODES FOR  
AN ION SOURCE

**PRELIMINARY AMENDMENT**

**BOX PATENT APPLICATION**

Assistant Commissioner for Patents  
Washington, DC 20231

15 November 2002

Sir:

The following Preliminary Amendment and Remarks are respectfully submitted in connection with the above-identified application.

**IN THE CLAIMS:**

Please add the following new claims:

--19. An indirectly heated cathode for an ion source comprising a button member having a front face for emitting thermionic electrons, when in use, to form a plasma and a rear face opposite to said front face for exposure to electron heating in use, the button member comprising a collar piece and a slug piece secured in the collar piece, the slug piece providing respective central portions of the front and rear faces of the button member and the collar piece providing respective peripheral portions of the front and rear faces surrounding said central portions, said slug piece being secured in

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